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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/601,848	06/24/2003	Chang-Il Gu	1568.1063	8089
49455	7590 05/02/2006		EXAMINER	
STEIN, MCEWEN & BUI, LLP 1400 EYE STREET, NW			MARTIN, ANGELA J	
SUITE 300		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20005			1745	
DATE MAILED: 05/02/2		6		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	-		
Office Action Summary		10/601,848	GU, CHANG-IL			
		Examiner	Art Unit			
		Angela J. Martin	1745			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence addres	SS		
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONI	N. imely filed in the mailing date of this commu ED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 14 Fe	ebruary 2006.				
2a)⊠	This action is FINAL . 2b) ☐ This	action is non-final.				
3) 🗀	Since this application is in condition for allowar			erits is		
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Dispositi	on of Claims					
4)🖾	Claim(s) 1-6 and 9-15 is/are pending in the app	olication.				
	4a) Of the above claim(s) is/are withdrav	vn from consideration.				
5)	Claim(s) is/are allowed.					
	Claim(s) <u>1-6 and 9-15</u> is/are rejected.					
· ·	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction and/or	relection requirement.				
Applicati	on Papers	•				
9)[The specification is objected to by the Examine	г.				
10)	The drawing(s) filed on is/are: a)☐ acce	epted or b) objected to by the	Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correcti		=	• •		
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-1	152.		
Priority u	ınder 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
	1. Certified copies of the priority documents					
	2. Certified copies of the priority documents					
	3. Copies of the certified copies of the prior		ed in this National Stag	ge		
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
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Attachment	r(s)					
1) Notice	e of References Cited (PTO-892)	4) Interview Summary				
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail D 5) Notice of Informal F	ate Patent Application (PTO-152))		
	No(s)/Mail Date	6) Other:	Essert approximent (1 10-102	- ,		

DETAILED ACTION

This Office Action is responsive to the Amendment filed on February 14, 2006. The Applicant has amended claims 1, 12, 14, and 15. However, the rejection is made final for the following reasons of record.

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 1, 12, 14, 15 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There is no support in the specification for "at a position of the seal portion where the opening member is disposed, a section of the seal portion that is at least as wide as the opening member is formed".

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1-6, 9-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takahashi et al., U.S. Pat. No. 6,653,018 B2.

Rejection of claims 1-6, 9-15 drawn to a pouch type secondary battery.

Takahashi et al., teach a pouch type (envelope) secondary battery (col. 1, lines 5-10) comprising an electrode assembly having positive and negative electrode plates with a separator inbetween (Fig. 8), and terminals extending from the plates (Fig. 1B); a pouch casing having a space in which the electrode assembly is housed, wherein the space has a seal portion at the periphery and at least one of the terminals is exposed to the seal portion; and at least one opening member disposed at the seal portion and made of a resin material having a lower melting point than the seal portion of the pouch casing (col. 19, lines 58-67 and col. 20, lines 1-2). It also teaches the opening member has a flattened first end, the flattened first end facing the space of the pouch casing (Fig. 8). It teaches the first end is connected to an internal end of the seal portion facing the space of the seal portion at which the opening member is disposed (Fig. 1B; Fig. 8). It also teaches the opening member is polygon shaped (Fig. 1B). Additionally, it teaches the opening is circular or elliptical (col. 6, lines 28-37). It teaches the electrodes are spaced a predetermined distance apart from each other to be exposed outside the pouch casing via the seal portion, and the opening member is interposed between the electrode terminals of the seal portion (Fig. 1B). It teaches the pouch casing has an adhesion layer made of resin on an internal face of the seal portion (col. 6, lines 16-27) and the opening member is made of resin having a lower melting point than a melting point of the adhesion layer (col. 8, lines 41-67). In addition, it teaches the opening

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member is made of a polyethylene resin material (col. 3, lines 40-54). It teaches at least one opening member of the pouch seal having a triangle shape (col. 6, lines 28-37) and comprising a resin having a lower melting point than a melting point of the pouch seal portion (col. 10, lines 22-26; col. 15, lines 54-64). It teaches a pouch type secondary battery as described above. It also teaches the opening member is triangular (col. 6, lines 16-27).

Takahashi et al., do not teach, "one side of a triangle faces an interior side of the seal portion at which the opening member is disposed, and an angle opposite the side is in a range of 30 to 80 degrees." It does not teach a member made of a material having a lower melting point than that of the seal portion.

Thus, the invention as a whole would have been obvious to one of ordinary skill in the art at the time the invention was made because although the prior art of record does not specifically state that the thickness of the opening member in a direction perpendicular to the seal portion is less than half of the width of the seal portion at which the opening member is disposed, it does teach a seal width at the opening member which appears to be less than the width of the seal portion (col. 16, lines 21-32) and that the opening is arranged under the seal portion at which the opening is disposed (Fig. 1B; col. 6, lines 38-49). In addition, the reference teaches that the "shape of the strip is not critical." Therefore, depending on the shape of the pouch (envelope) and the choice of the artisan, the opening member can be triangular with the above-described angles. In addition, Takahashi et al., teach seal portion is made of PP (polypropylene) (col. 17, lines 8-12) while the member disposed at the seal portion is

made of PP and PE (polyethylene) (col. 17, lines 20-21). Since PP has a melting point of about 160-170 degrees C and PE has a melting point of about 130 degrees C, then the member would melt before the seal portion since the member has a lower melting point than that of the seal portion.

Response to Arguments

5. Applicant's arguments with respect to above claims have been considered but are most in view of the new ground(s) of rejection. The 35 USC 112, 1st Rejection of new matter must be addressed.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Angela J. Martin whose telephone number is 571-272-

1288. The examiner can normally be reached on Monday-Friday from 9:00 am to 5:00

pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

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Business Center (EBC) at 866-217-9197 (toll-free).

AJM

PATRICK: (**)

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